

Executive Director

Dianne R. Nielson, Ph.D.

DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING

355 West North Temple 3 Triad Center, Suite 350 Salt Lake City, Utah 84180-1203 Division Director 801-538-5340

January 10, 1992

Mr. Ken A. Kluksdahl Goldstrike Mine Manager Tenneco Minerals P.O. Box 2650 St. George, Utah 84770

Dear Mr. Kluksdahl:

Re: Final Approval of Permit Amendment, Sediment Storage Pond Upgrade, Goldstrike Mine, M/053/005, Washington County, Utah

The Division has received copies of review comments from the Utah State Division of Water Rights and the Division of Water Quality regarding Tenneco's proposed plans to upgrade the sediment storage pond at the Goldstrike Mine. Please accept our apology for the delay and oversight in not forwarding these to vour sooner.

This letter will constitute our final approval of this permit amendment. We concur with the comments as outlined in the enclosed review letters. Please incorporate these design recommendations as part of your plans to upgrade the sediment pond. Thank you for your patience and cooperation in finalizing this permitting action. Please contact me directly if you have questions regarding this approval.

Sincerely,

D. Wayne Hedberg Permit Supervisor

Minerals Regulatory Program

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Enclosure

Debra Brannum, Tenneco

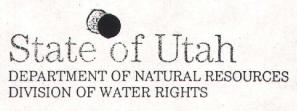
Richard Hall, DWR Kiran Bhayani, DWQ

Debra Pietrzak, Dixie RA, BLM - w/enc.

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1636 West North Temple, Suite 220 Salt Lake City, Utah 84116-3156 801-538-7240

October 25, 1991

DIVISION OF OIL GAS & MINING

Mr. Ken A. Kluksdale, Mine Manager Tenneco Minerals P.O. Box 2650 St. George, UT 84770

Re: Tenneco Quail Springs Fill Dam and Tenneco Sediment Pond Upgrade

Dear Mr. Kluksdale:

As you are aware, Richard Hall of our Dam Safety Section undertook an inspection of the dams on your site on October 10, 1991. Based on his observations and a review of the available files, plans and specifications, we have the following comments:

Quail Springs Fill Dam

A final inspection of this dam was undertaken. Based on the field examination, it appears the project is satisfactory; this letter will serve as official notice of our acceptance of the completed project.

Sediment Pond Upgrade

An inspection of the Sediment Dam was undertaken to review the historical problem of piping and review the proposal for upgrading submitted to this office by D. Wayne Hedberg of Oil, Gas & Mining on October 9, 1991. This letter will serve as official notice of our approval of the upgrading, conditional on the following items, which we discussed in the field.

- 1. A filter fabric should be placed under the clay blanket in the lower portion of the pond where the larger rock in the fill tended to segregate.
- 2. The crest should be made level to avoid ponding and concentration of erosive flows.

Ken A. Kluksdale Page 2 October 25, 1991

If you have further questions or comments, please feel free to contact Richard Hall of our Dam Safety Section.

Sincerely,

Robert L. Morgan, P.E.

State Engineer

RLM:rbh:cp

cc: Gerald Stoker, Cedar Regional Engineer

D. Wayne Hedberg, Oil, Gas & Mining



State of Utah

DEPARTMENT OF ENVIRONMENTAL QUALITY DIVISION OF WATER QUALITY

Norman H. Bangerter
Governor
Kenneth L. Alkema
Executive Director
Don A. Ostler, P.E.
Director

288 North 1460 West Salt Lake City, Utah (801 538-6146 (801) 538-6016 Fax Reply to:

State of Utah

Division of Water Quality

Department of Environmental Quality Salt Lake City, Utah 84114-4870

November 20, 1991

D. Wayne Hedberg
Permitting Supervisor
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, UT 84180-1203

RE: Sedimentation Pond Upgrade

Dear Mr. Hedberg:

Tenneco Minerals constructed a sedimentation pond down gradient from the Goldstrike facilities to contain storm water runoff. This pond was approved by the Division of Oil Gas and Mining. The structure does not contain 100 year, 24-hour storm water runoff nor remove sediments. Tenneco now plans to convert the sedimentation pond into a containment structure.

In a phone conversation with Mr. Holland Shepherd of your office, we discussed the following required improvements to the sedimentation pond:

- The sedimentation pond must contain only storm runoff from the Goldstrike facilities generated by a 100-year, 24-hour storm event.
- The dike must be lined to reduce leakage rates so the solids in storm water runoff are reduced to 25 milligrams per liter prior to entering the receiving stream.
- A filter layer should be installed between the existing dike and the proposed clay layer to prevent water channeling and eroding the clay.

If you have any questions, or wish to discuss this issue further, please let me know.

Sincerely,

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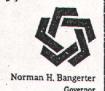
DIVISION OF OIL GAS & MINING

LWS:rvg

cc: Mr. Wayne Thomas, Southwest Health Department

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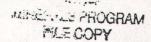
Dee C. Hansen **Executive Director** Dianne R. Nielson, Ph.D. Division Director

DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING



355 West North Temple 3 Triad Center, Suite 350 Salt Lake City, Utah 84180-1203 801-538-5340

October 9, 1991



Mr. Ken A. Kluksdahl Mine Manager Tenneco Minerals P. O. Box 2650 St. George, Utah 84770

Dear Mr. Kluksdahl:

Mine Plan Amendment Review - Sediment Pond Upgrade, Tenneco Minerals, Re: Goldstrike Mine, M/053/005, Washington County, Utah

Thank you for your recent resubmittal of plans for the sedimentation pond upgrade. The Division has reviewed your resubmittal, received September 20, 1991, and finds your response satisfactory. However, the Division is requesting review comments and concurrence from the State Division of Water Rights, Dam Safety, the State Division of Water Quality and the Bureau of Land Management, prior to our issuance of final approval of these plans.

We hope to receive all review comments from these agencies by October 31, 1991. Unless otherwise advised, we will be prepared to finalize our approval at that time. I hope this will not significantly compromise your proposed construction schedule. Thank you for your continued cooperation and patience in completing this permitting action.

Sincerely,

D. Wayne Hedberg Permitting Supervisor

Minerals Regulatory Program

jb

cc:

Debra Petrizak, BLM, Dixie RA, w/enclosures Robert Morgan, Dam Safety, w/enclosures Don Ostler, DWQ, w/enclosures

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